Thursday, 02/04/2009 2:25:52 PM Date: Ùser: Julie Dawson : CU-DAR001 Dart Helicopters Services Customer Job Number : 46850 **Estimate Number** : 10089 P.O. Number This Issue : 02/04/2009 S.O. No. : : NC Prsht Rev. : // Type First Issue : 46168 **Previous Run** Written By Checked & Approved By Comment **Additional Product** Job Number: Seq. #: 1.0 PG

Process Sheet

Drawing Name

: BEARING

Part Number **Drawing Number**

: D312123 : D3121 REV E

Project Number **Drawing Revision** : N/A : E

Material

Due Date

: 14/04/2009

Qty:

50 Um:

Each

KJ/DS 04.02.19 New Issue

Est Rev:B ECN 1060 07-11-12 DD verified by:EC

: PURCHASED PARTS



Machine Or Operation:

Description:

PURCHASING





Comment: PURCHASING

Issue P/O: <u>\$5</u>05

C209/04/03 Bearing as per Dwg D3121

Possible Supplier: SKF P/N: 61900-2Z or KML P/N: 6900-ZZ

Material release note is required

2.0 6900ZZ

Comment: Qty.:

3.0

Bearing



50.0000 Each(s) 1.0000 Each(s)/Unit Total:

Bearing

PACKAGING 1

PACKAGING RESOURCE #1







Receive & Inspect for Transit Damage Ensure Material Release Note is attached

4.0 QC6



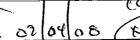




Comment: DIMENSIONAL CHECK

Inspect diimensions as per Dwg D3121 and attached certfication Dwg Rev





5.0 **PACKAGING 1**



PACKAGING RESOURCE #1





Comment: PACKAGING RESOURCE #1

Identify and Stock Location: 3





Dart Ae	rospace Lt	d							
W/O:			WC	RK ORDER CHANGES	3	-			
DATE STEP		PR	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Cateç	Jory:	NCR: Yes	No DQ	A:	Date:	
	Reso	lution:	Disposition	1:	QA: N/C CI	sed:		Date: _	
NCR:				R NON-CONFORMAN					
DATE	STEP	Description of NC		Corrective Action Section B	Veriticati		cation	1 Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Sect	ion C	Chief Eng	QC Inspector
							<u>.</u>		
						-			

NOTE: Date & initial all entries

Date:

Thursday, 02/04/2009 2:25:52 PM

User:

Julie Dawson

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: BEARING

Job Number: 46850

Part Number: D312123

Job Number:



Seq. #:

Machine Or Operation:

Description:

6.0

QC21



FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



Da	art	Ae	ros	pa	ce	L	d
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W/O:			W	ORK ORDER CHANG	ES					
DATE STEP		PRO	PROCEDURE CHANGE			[Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
									Prod Wgr	
•								<u>.</u>		į
	:									
Part No	:	PAR #:	Fault Cate	gory:	NCR: Ye	es No	DQ.	\ :	Date:	
				QA: N/C Closed: Date						
NCR:			WORK ORD	ER NON-CONFORM	ANCE (N	CR)				
DATE	STED Description of NC		Corrective Action Section B			Varitica			on Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		n & ate	Verification Section C	on C	Chief Eng	QC Inspector
	1		1		1				1	i

NOTE: Date & initial all entries



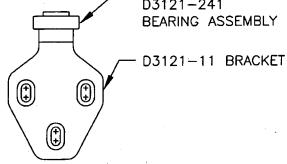
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	CHEC	(ED_	APPROVED	DRAWING NO. REV. E		
		#		D3121 SHEET 1 OF 10		
	DATE			TITLE SCALE		
	07.1	1.07		BRACKET ASSEMBLY 1:2		
	Α		02.04.15	NEW ISSUE		
	В		03.01.16	ADD RIDGES; ADD MAT'L PROP; FIX P/N ADD -141/-143/-144/-145/-146		
	С		04.02.17	ADD CLEARANCE; USE -241 BEARING		
	D		06.05.17	D3121-25 CAP WAS 1.024, NOW 1.000		
	Ε	_	07.11.07	ADD TOLERANCE TO 0.032 (DETAIL B)		



D3121-21 BOLT (1) D3121-241 BEARING ASSEMBLY (1)

D3121-041 BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-33)

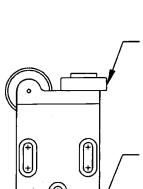


D3121-21 BOLT (1) D3121-241 BEARING ASSEMBLY (1) (2 PLACES)

D3121 - 13/-14**BRACKET**

D3121-043 (SHOWN) / D3121-044 (OPPOSITE) BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-37/-38)



D3121-21 BOLT (1) D3121-241 BEARING ASSEMBLY (1) (2 PLACES)

D3121-15/-16 BRACKET

D3121-045 (SHOWN) / D3121-046 (OPPOSITE) BRACKET_ASSEMBLY

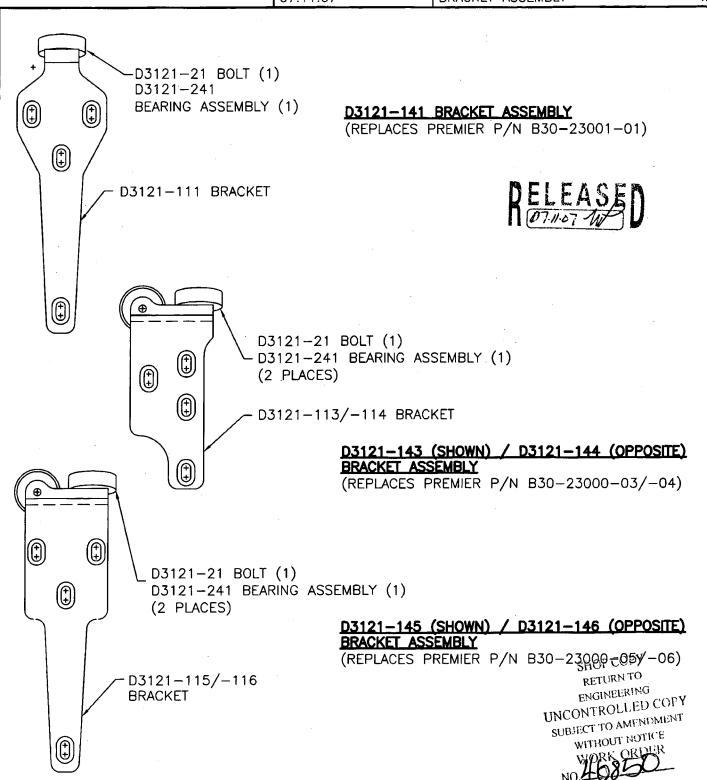
(REPLACES PREMIER P/N B30-23000-35/-36)

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DATE		TITLE	SCALE	
07.11.07		BRACKET ASSEMBLY	1:2	

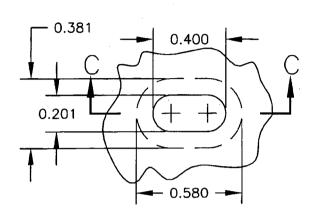


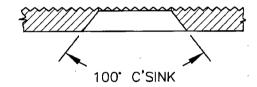
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	4	 	D3121	SHEET 3 OF 10	
	DATE		TITLE	SCALE	
	07.11.07		BRACKET ASSEMBLY	1:1	

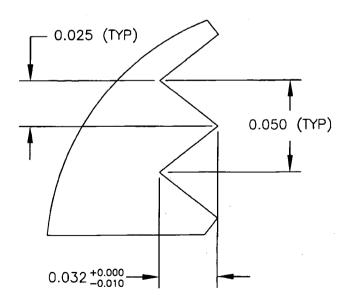
DETAIL A SLOT DETAIL VIEW ROTATED





RELEASED

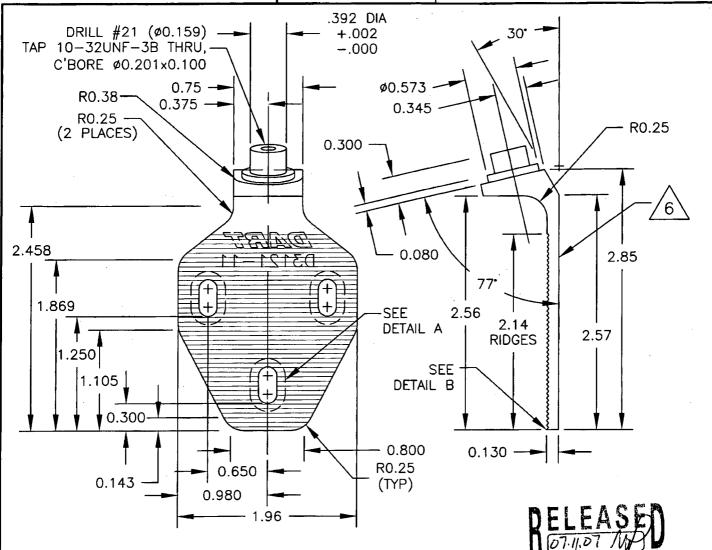
<u>DETAIL B:</u> <u>RIDGE DETAIL</u> PARTIAL SECTION SCALE 1:20



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DATE		TITLE	SCALE	
07.11.07		BRACKET ASSEMBLY	1:1	



D3121-11 BRACKET

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)
MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

5) ENGRAVE DART P/N & LOGO AS SHOWN

6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

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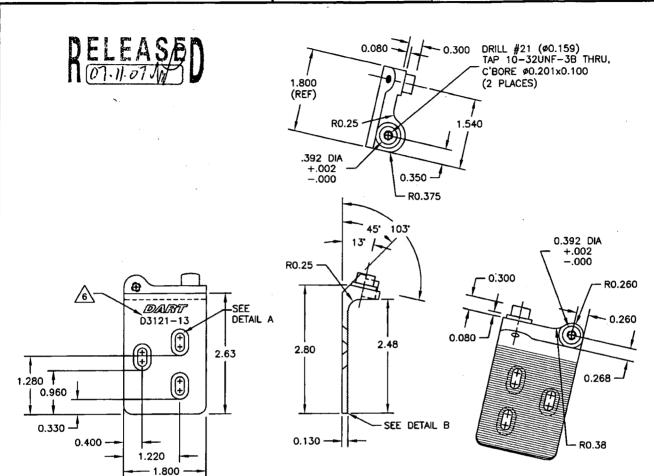
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DATE		TITLE	SCALE		
07.11.07		BRACKET ASSEMBLY	1:2		



D3121-13 BRACKET (SHOWN) D3121-14 BRACKET (OPPOSITE)

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)

MIN ULTIMATE TENSILE STRENGTH = 150 ksi MIN YIELD TENSILE STRENGTH = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

5) ENGRAVE DART P/N & LOGO AS SHOWN

6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

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RETURN TO

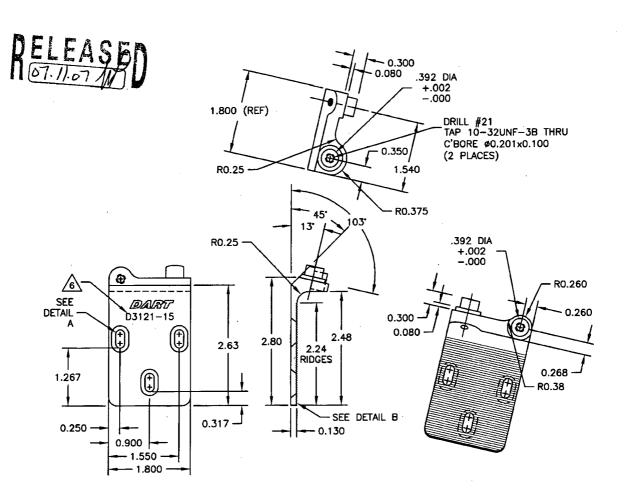
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DATE		TITLE		SCALE		
07.11.07		BRACKET	ASSEMBLY	1:2		



D3121-15 BRACKET (SHOWN) D3121-16 BRACKET (OPPOSITE)

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

5) ENGRAVE DART P/N AND LOGO AS SHOWN

6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

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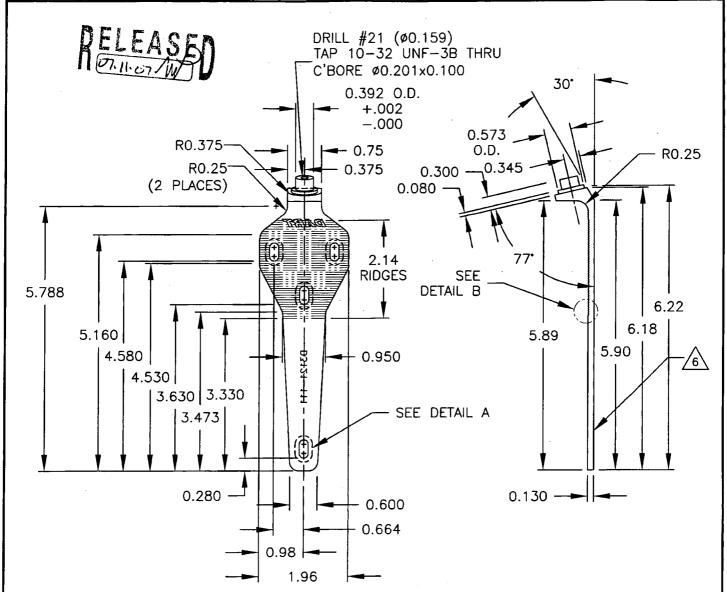
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į	#	-	D3121	SHEET 7 OF 10		
	DATE		TITLE	SCALE		
	07.11.07		BRACKET ASSEMB	LY 1:2		



D3121-111 BRACKET

- 1) REPLACES PREMIER P/N B32-23001-11
- 2) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) MIN ULTIMATE TENSILE = 150 ksi

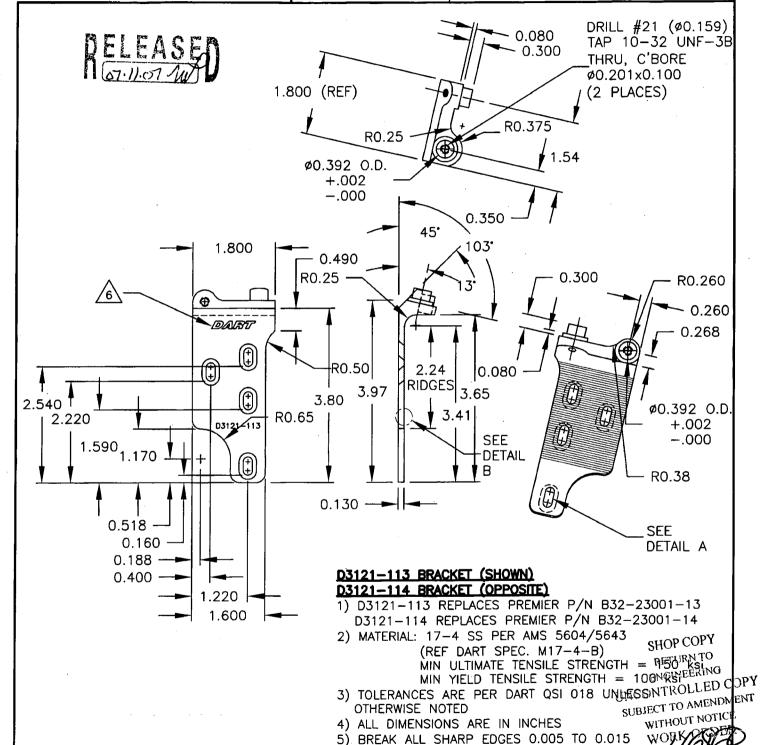
MIN YIELD TENSILE = 100 ksi

- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHEWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 6) ENGRAVE DART P/N & LOGO IN AREAS SHOWN
- 7) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

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07.11.07		BRACKET ASSEMBLY	1:2		

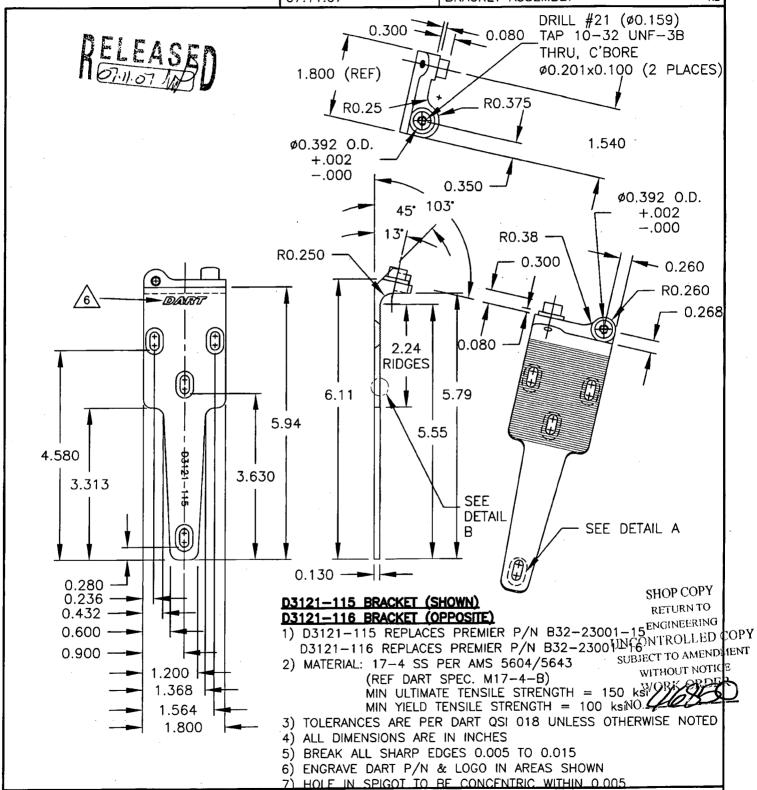


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6) ENGRAVE DART P/N & LOGO IN AREAS SHOWN 7) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

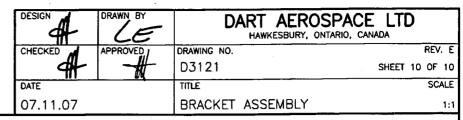


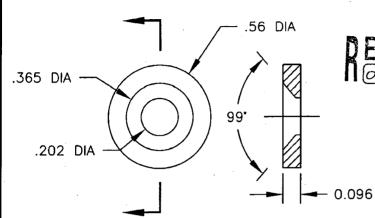
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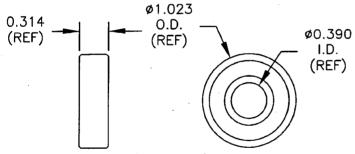






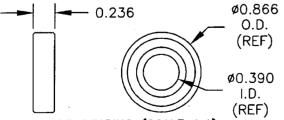
D3121-17 WASHER (SCALE 2:1)

- 1) REPLACES PREMIER P/N B32-23001-17
- 2) MATERIAL: AISI 303 SS ROUND BAR, ANNEALED (REF DART SPEC. M303R)
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015



D3121-19 BEARING (SCALE 1:1)

- 1) POSSIBLE SUPPLIER: KING BEARING P/N 6000-2ZJ/EM FAFNIR P/N 9100KDD
- 2) ALL DIMENSIONS ARE IN INCHES



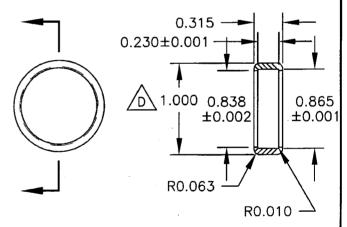
D3121-23 BEARING (SCALE 1:1)

- 1) POSSIBLE SUPPLIER: SKF P/N 61900-2Z OR KML P/N 6900-ZZ
- 2) ALL DIMENSIONS ARE IN INCHES

0.375 TAP 10-32 UNF-3A 0.080 0.050 TO 0.060

D3121-21 BOLT (SCALE 1:1)

- 1) MATERIAL: AISI 303 SS HEX, ANNEALED (REF DART SPEC. M303H0.500)
- 2) FINISH: NONE
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015



D3121-25 CAP (SCALE 1:1)

1) MATERIAL: DELRIN ROD, Ø1.25

(REF DART SPEC. M-DELRIN-R1.250)

- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES

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D3121-241 BEARING ASSEBLY (SCALE 1:1)

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CUSTOMER ORDER %: 00008505

PST LICENCE: 6122-5207

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